



03/03/2005 16:54

4083820481

PATENT LAW GROUP LLP

PAGE 02/03

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail****Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (703) 746-4000**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

Brian D. Ogonsowsky (Depositor's name)
Brian D. Ogonsowsky (Signature)
3/3/05 (Date)

22830 7590 12/16/2004
~~CARR & FERRELL LLP~~
~~2200 GENG ROAD~~
~~PALO ALTO, CA 94303~~
03/04/2005 LWONDH2 00000066 09854092

PATENT LAW Group LLP
2635 N. First St.
SUITE 223
SAN JOSE, CA 95134
1400.00
300.00 OP

01 FC:1501
02 FC:1504

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/854,092 | 05/10/2001 | Tony P. Chiang | PA1663US | 7713 |

TITLE OF INVENTION: METHOD AND APPARATUS FOR IMPROVED TEMPERATURE CONTROL IN ATOMIC LAYER DEPOSITION

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|-----------------------|--------------|----------------|-----------------|------------------|------------|
| nonprovisional | NO | \$1400 | \$300 | \$1700 | 03/16/2005 |
| EXAMINER | ART UNIT | CLASS-SUBCLASS | | | |
| MEEKS, TIMOTHY HOWARD | 1762 | 427-248100 | | | |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 **Patent Law Group LLP**
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Novellus Systems, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

San Jose, California

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

☒ Issue Fee
☒ Publication Fee (No small entity discount permitted)
☒ Advance Order - # of Copies **Four (4)**

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.
☒ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Brian D. Ogonsowsky

Date

3/3/05

Typed or printed name

Brian D. Ogonsowsky

Registration No.

31,988

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTOL-85 (Rev. 11/04) Approved for use through 04/30/2007

PAGE 2/3 * RCVD AT 3/3/2005 7:44:56 PM [Eastern Standard Time] * SVR:USPTO-EFXXF-210 * DNIS:7464000 * CSID:4083820481 * DURATION (mm-ss):01:18 * F COMMERCE



2635 North First St. Suite 223
 San Jose, CA 95134
 Tel: 408.382.0480
 Fax: 408.382.0481

FACSIMILE COVER SHEET

| | | | |
|--------------|-----------------------------------------|---------------|---------------------|
| Date: | March 3, 2005 | Fax: | 703-746-4000 |
| To: | U.S. Patent and Trademark Office | Phone: | 703-305-8283 |

Issue Fee

| | |
|--------------------|----------------------------------|
| From: | Brian D. Ogonowsky |
| Serial No.: | 09/854,092 |
| Docket: | ANG-PA-1663 US |
| Re: | Payment of Issue Fee |
| Pages: | 3 (including cover sheet) |

Message:

Rc: Applicant(s): Tony P. Chiang, Karl F. Leeser
 Assignee: Novellus Systems, Inc.
 Title: Method and Apparatus for Improved Temperature Control In Atomic Layer Deposition
 Serial No.: 09/854,092
 Filed: May 10, 2001
 Docket No.: ANG-PA-1663 US

Group Art Unit: 1762

Dear Sir:

Transmitted herewith are the following document in the above-identified application:

- (1) Issue Fee Transmittal, Form PTOL-85 (Part B)(1 page);
- (2) Credit Card Payment Form PTO-2038 (1 page).

The information contained in this message is intended only for the personal and confidential use of the designated recipient(s) named above. This message may be an attorney-client communication and may be protected by the work product doctrine. As such, this document is privileged and confidential. If the reader of this message is not the intended recipient, you are hereby notified that you have received this document in error and that any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and destroy any copies of this document in your possession. Thank you.